

MSU Library Spaces: Findings & Recommendations

Prepared by the Space Exploration Group

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MSU Library Spaces: Findings & Recommendations

Introduction

Montana State University (MSU) is a land grant university located in Bozeman, Montana. In the Fall of 2012, student enrollment was 14,660. MSU offers baccalaureate degrees in 58 fields with many different options, 8 associate degrees, master's degrees in 45 fields, and doctoral degrees in 20 fields.

The mission of MSU is:

Montana State University, the State's land-grant institution, educates students, creates knowledge and art, and serves communities, by integrating learning, discovery, and engagement.

MSU Library plays a critical role in helping the University achieve its mission by providing relevant collections that support the curriculum and research of faculty, staff, and students; creating an environment that supports individual and group study; and developing easy, efficient, and innovative ways to connect users with our resources.

As University priorities, new research initiatives and student body demographics change over the next several years, MSU Library must be able to respond in a systematic and strategic manner to the increasing space needs and pressures placed upon it. To do this, the Library is developing a flexible 10 year space plan that will make recommendations for how space should be allocated in the Library.

The Planning Process

The Space Exploration Group was created in March 2013 to develop a 10 year flexible plan for space in the Library. The committee's first tasks were to identify a charge, timeline, and planning process.

Charge

The Library Space Working Group is charged with collecting data and input from library constituents and advising the Library Dean on how to re-purpose, renovate, and reallocate space, furnishings, equipment, and facilities to aid the Library in meeting user needs and to support the mission of the MSU Library.

This will be done by

- Evaluating current use of space
- Reviewing existing data on students/faculty/staff desire for space
- Engaging Library employees in a conversation on space
- Aligning space recommendations with the strategic plan
- Additional strategies as identified

Producible

A document outlining a flexible 10 year plan for growth that recommends locations and spaces for

- Student study/work

- Digital Scholarship Center
- Employee work
- Collections
- Teaching
- Performance and
- Other spaces as identified (Center for Faculty Excellence etc.)

Make-up of Working Group: 6 member working group

- Access Services Librarian (chair) – Connie Strittmatter
- Member from Collection Development team – Molly Anderson
- Member from Reference Team – Mary Anne Hansen
- Member from Systems – Michael Hodges
- Representative from PSG – Sheila Bonnard
- Classified Staff Representative – Bobbi Palagi

Timeline:

- April 1 – Review literature on library space
- April-May, 2013 – Data collection
- June-August, 2013 – Solicit input from library employees
- August 31, 2013 – Submit a written report to the Library Dean

The library recently completed an assessment of the 1st floor Library Commons so SEG was able to draw upon the information gathered and conclusions made to ascertain what was working with the 1st floor commons and students' expectations and desires. The library also completed LibQual in 2012 which served as another data point for perceptions of the Library.

To collect additional data regarding use of the Library, SEG conducted "sweeps" during the final three weeks of Spring semester. These sweeps consisted of counting the number of students participating in group work or studying individually, the number of library computers in use, and the number of laptops being used. The data collected helped SEG to determine how the building was being used by students (See Appendix B). SEG posted flip charts throughout Renne Library asking students how these spaces could better serve them. SEG also measured the library to identify how much space was allocated to stacks, group study, quiet study, etc.

To include Library employees in the process, members of SEG met with each team to discuss their work space. Examples of questions included: "In your current work configuration what is essential to doing your job?" and "What in your surroundings impedes your workflow?"

After data was collected and analyzed, SEG hosted two open forums at which employees could discuss ideas and concerns regarding space and collections. Employees were presented with data from the library sweeps, flipchart comments, and new spaces that had been identified for the Library. Employees were asked to consider questions such as "What does the data from library sweeps tell you about space and how is it used?" and "If materials were to be housed in off-site storage, what type of materials should be housed there?"

Library employees were also asked to complete a survey in which they allocated square footage for spaces such as stacks, Digital Scholarship center, group study, etc. They were also asked to rank in order of priority which new space initiatives should be explored/implemented first (See Appendix A). Lastly, employees were asked to participate in an exercise in which they designed the layout of the library which included existing and new spaces.

From this data and input, SEG was able to identify new spaces that should be housed in the Library, current spaces that need more square footage allocated to them, and current spaces that could be reduced in size. This report provides recommendations for these areas. When possible SEG recommends potential locations for spaces but it is beyond the scope of this report to develop a floor plan for the Library.

Assumptions

1. All existing and new spaces must be 100,000 SF or less.
2. Natural lighting should be preserved for learning spaces rather than offices or stacks.
3. The amount of space for students should not be reduced. Students' point of entry is 1st floor and often the only space they use in the Library. With the implementation of the Commons, there has been an increased use of space on 1st floor. In addition, students often come in and out of the Library quickly to use services on 1st floor. That kind of use should be preserved for students. The centers the Library is considering adding will provide space for those working on projects for longer time periods.

SEG Assessment & Recommendations

Library Stacks Space

Recommendation: Reduce from 30,048 SF to 20,000 SF

As the Library transitions from a storehouse for books to a dynamic center for student and faculty engagement, stacks space will need to be reduced by at least 33%. To facilitate this process, SEG recommends that the Library explore the following:

- Shift to electronic book environment;
- Explore last copy repository consortia agreements;
- Make a significant commitment to weeding the collection;
- Examine whether MSU Library should continue participation in the Federal Depository Library Program;
- Explore the feasibility and cost associated with a climate controlled off-site storage facility. This would include employee costs associated with maintaining the facility and retrieving and delivery materials in off-site storage to library users;
- Examine decreasing the footprint of map and microform collections.

Potential location for stacks removal: SEG recommends that stacks be removed from the northeast side of the 2nd and 3rd floors. There is limited natural lighting in the building and these areas have many windows currently blocked by the stacks.

SEG recommends removing ranges of shelving and creating pockets of quiet study and comfortable seating within the stacks.

Group Tables

Recommendation: Increase from 10,592 SF to 16,500 SF

SEG Recommendations: Group study tables are heavily used in the Library and demand is increasing. On 2nd floor, sweep data indicated that group tables were occupied 82% of the time. First floor tables were occupied 66% of the time. SEG recommends placing additional group tables on the east side of the 3rd floor adjoining the existing group study rooms. This would involve some minor renovation. To separate group study space from quiet study on east side of the 3rd floor, windows and a door would need to be put in to create a divider between the two areas. By converting this space into a group study area, we would also resolve the problem currently experienced with noise from the group study rooms disrupting students studying in the quiet study space.

Another alternative would be to create a group study space area on the northeast side of 2nd or 3rd floor.

Maintain group tables on south side of 2nd floor and atrium perimeter.

Study Rooms

Recommendation: Increase reservable group study rooms from 2,000 SF to 2,500 SF

Due to the popularity of the study rooms by students and increasingly by tutors, SEG recommends creating more reservable study rooms of varying sizes. Creating 2-4 person study rooms can meet most

tutoring meetings which usually consist of 2-3 people. Explore making some of the rooms priority use for tutors.

Possible locations for study rooms: 3rd floor east side. Convert ITC minilabs to small study rooms.

Modifications to 1st floor study rooms: Noise levels are high in the 1st floor study rooms. The current design is not optimal. To reduce noise, SEG recommends creating walls, windows and doors.

Tutoring Space

Recommendation: Create new space of 420 SF

Work with tutors to identify a designated meeting area and to decide whether a designated tutoring area is needed. Tutoring spaces can be incorporated into study rooms above.

Quiet Space

Recommendation: Reduce from 19,500 SF to 15,500 SF

SEG Recommendation: Reduce and reconfigure quiet seating on 3rd and 4th floors.

Reducing: Reduce quiet space on 3rd floor east side and make that area group tables. SEG justifies this action because it is already a high volume area due to the study rooms and sweep data indicate that this section of seating was at 25% capacity.

Reconfiguring: Quiet seating should be on 2nd, 3rd and 4th floors. Observations made by SEG suggest that long chains of carrels are not effective use of space and are underutilized. Students will sit every other carrel. SEG recommends a better arrangement of quiet seating to include the replacement of pinwheel carrels and linked carrels, greater dispersal of carrels, and the inclusion of larger carrels and single use tables.

Comfy Seating

Recommendation: Reduce from 4,080 SF to 3,600 SF

Library sweeps data show that comfy seating is not being used to capacity. With the exception of the 1st floor atrium area, comfy seating within the library was at less than 20% of potential capacity.

SEG Recommendation: Reduce and redistribute comfy seating in all areas with the exception of the atrium. Repurpose space saved with group tables or quiet study.

Reducing: To begin, the blue linked chairs on 1st and 3rd floor should be considered for removal. If group tables go on 3rd east side (**see page 5**), some of the comfy seating that is currently there will be displaced.

Redistributing: Comfy seating should be on 2nd, 3rd and 4th floors as well. Potential locations include a couple of seats in the lobby, and creating pockets of comfortable seating within the stacks.

Computing Space

Recommendation: Maintain 4,200 SF of computing space. Reconfigure and redistribute computers.

Sweeps conducted during the last three weeks of the school year indicated that computer use capacity was 56.7% for 1st floor computers, 44.8% for 2nd floor computers and less than 20% capacity for computers located in the lobbies of the basement and 3rd and 4th floors.

SEG Recommendation:

Redistribution of computers: SEG does not recommend adding more stationary computers but redistributing them to 2nd and perhaps 3rd floor.

Stand-up computers: were often not in use during sweeps. SEG recommends reducing the number of stand-up stations and deploying those computers to sit-down stations. We also recommend converting one of the stand-up computers in the lobby to be ADA accessible

Quiet Computing Spaces: There have been repeated requests from students through LibQual, Commons Assessment, and on the flipcharts for a quiet computing area. SEG recommends either of the following:

1. Increase the number of laptops available for circulation so students can check out a laptop for use in quiet areas.
2. Place desktop computers in carrels dispersed throughout the 3rd floor.

ADA Accessible Computers: Solution for accessible computing needs to be found. SEG recommends a commitment from the Library to only purchase ADA compliant tables in the future.

ITC/Library Computer Consolidation: Consolidate current ITC computers into a single space such as the west cubby on 2nd floor. SEG recommends that immediate efforts to implement a long-term solution to provide computers that can login as library or ITC computers. This will require collaboration with ITC. Special attention should be paid to preserving speed, ease of use and anonymity. SEG also recommends that library administration encourages ITC to open additional labs on Saturdays.

Library Classroom/Flexible Teaching Space

Recommendation: Maintain existing fixed space of 761 SF and create new flexible space of 640 SF.

The current library classroom meets a valuable instructional need. However, as the student population and subsequent demand for instruction increases, additional teaching spaces are needed. Recognizing that traditional teaching spaces are not always appropriate for instruction, these new spaces must be dynamic and flexible to accommodate new technologies and models of instructions.

Possible locations: SEG recommends that the traditional classroom remain in its current location.

A 450 SF flexible teaching space has been identified on the southwest side of the 1st floor. While this starts to meet the needs of flexible and dynamic teaching spaces, additional spaces should be explored. It is estimated that 700 SF is needed to create a multi-purpose, dynamic and flexible teaching space.

Possible location: SEG recommends Spain-Sedivy as a possible flexible teaching space.

Digital Scholarship Center/Data Management & Research Computing/Digital Media Lab.

Recommendation: Create 3,000 SF space for these services

Although these were identified as three separate spaces, SEG feels that there is a natural synergy among the services these spaces will provide. As a result, we recommend that these spaces become one when planning for their implementation.

The Digital Scholarship Center scored highly and was ranked as the number one priority in the Library employee survey and it also appears in the strategic plan. The Data Management & Research Computing Center (DMRCR) was ranked number 5 in priority and the Digital Media Lab (DML) was ranked number 6. While DMRCR and DML were ranked lower in priority, SEG recommends they move up in priority to the level of the Digital Scholarship Center.

SEG currently estimated the following space needs for each space:

- Digital Scholarship Center -1,000 SF
- Digital Management & Research Computing 1,200 SF
- Digital Media Lab – 1,100 SF

With the consolidation of these spaces, SEG does not feel that 3,300 SF is needed. We recommend that this space be allocated **2,500-3,000 SF**.

Potential Locations: Northeast side of 3rd floor, Spain-Sedivy, 4th floor, northeast side of 2nd floor, Collection Development offices and CD workspace on 1st floor, and northwest side of 1st floor

Public Events Space

Recommendation: New space with estimated 2,000 SF

There is increased programming in the library but many events cannot be accommodated since there is no performance space. A public event space is crucial to the role of the Library as place. However, SEG also recognizes that the room will not be used all of the time. SEG recommends that the public events space serve a dual purpose with group study space.

The Public Events Space should be a defined area with an entrance. This would reduce noise and interruptions and control the flow of traffic.

Potential locations: Spain-Sedivy, create enclosed space on 2nd floor, Special Collections, east side of 3rd floor if that area is renovated to include a wall and doors and designated as group study space as noted above.

Employee Work Spaces

Recommendation: Increase employee works spaces from 16,163 SF to 18,000 SF.

As the Library increases and expands the services it provides to its constituents and as student population increases, the library will need to create new positions to serve these increasing needs. As a result, SEG recommends increasing employee works spaces to accommodate new positions and to enable the Library to meet the University's work space standards for all employees.

Due to recent proposed restructuring, SEG recommends a flexible approach to employee works spaces, taking into account the following considerations:

- There is a need for additional offices for faculty.
- Inter-team co-location affords efficiencies to workflow and facilitates collaboration in certain instances. (ex. Collection Development located near Cataloging & Processing).

- Intra-team co-location promotes team communication and cohesion to streamline workflow processes.
- Reconfiguration of employee work spaces should provide optimal environmental standards. (HVAC, lighting, sound abatement etc.).

Changes to work environments should be based on the considerations above.

Browsing Collection

Recommendation: Expand Browsing collection from 500 SF to 1,000 SF

This is a new space that currently occupies approximately 500 SF. Depending upon the success of the collection, potential growth may be needed. SEG projects a need for approximately 1000 SF for this collection which should remain located on the 1st floor. Revisit after one year.

SEG recommends that Brewed Awakening and the Browsing Collection remain co-located.

Brewed Awakening

Recommendation: Relocate and increase size of Brewed Awakening from 176 SF to 300 SF

To accommodate growing demand, reduce noise and congestion, SEG recommends exploring the possibility of moving Brewed towards the front of the Library and expanding its size to 300 SF with the addition of a second service point and additional seating.

After initial investments, SEG projects that increasing service points at Brewed Awakening will likely generate additional revenue for the Library which can be placed into a plant fund to supplement costs incurred by the recommended additional renovations mentioned above.

SEG recommends that Brewed Awakening and the Browsing Collection remain co-located.

Research Center

Recommendation: Create additional space of 520 SF

The Research Center will serve as a central location for research assistance. It will provide a research desk, a collaborative workspace for employees who work at the Research Center, and work space for adjuncts who do not have office space. The Research Center should be located in proximity to high traffic student areas.

Potential location: 1st floor. Possibly modify two or three study rooms for the research center. This would require moving the existing study rooms to another location.

Library Commons on 2nd Floor

Recommendation: Create new space of 1,875 SF

With the opening of the Commons in 2011 and increase in student population, the Library has seen increased foot traffic. The 1st floor commons is quite busy and an extension of this concept should be extended to the northeast side of the 2nd floor where there is currently underutilized space and natural lighting.

Potential location: Add to and enhance space on north side of 2nd floor.

Center for Faculty Excellence

Recommendation: New space with estimated space 600 SF

Housing the Center for Faculty in the Library provides an opportunity for the Library to collaborate with organizations on campus and provide increased services to faculty. The location for the CFE is flexible and could be placed anywhere in the library. However, there may be some logistical advantages to housing the CFE in proximity to flexible teaching or public events space given that this Center offers many workshops for faculty.

Designated Display Spaces

Recommendation: create new space of 300 SF to be dispersed among all floors

Displays are playing a more prominent role in the Library. While the current location near the entrance is a high traffic location, additional display spaces can be created as well. Opportunities for display areas should be considered in all renovations.

Potential Locations: Create spaces in the lobby area of each floor and other areas as appropriate.

Special Collections

Recommendation: Maintain existing space of 7,200 SF

Potential action for Special: Special Collections need to have a more prominent role in the Library. Recent renovations hope to highlight this collection and make it more prominent. If the 2nd floor location does not increase the prominence of the collection, SEG recommends creating a more dynamic and accessible space on the 4th floor of the library or moving the collection to a separate building/location on MSU campus.

No Changes Recommended

The following spaces are either in process or SEG does not recommend any changes:

ITC Help Desk

Recommendation: This space is currently under construction. The 800 SF help desk will be on the southwest side of the 1st floor.

Writing Center

Recommendation: Maintain existing space of 260 SF

Next Steps

SEG has identified areas to begin implementing recommendations in the Space Planning Document:

Stacks Decisions

The first step that needs to be addressed in this report is how stack space will be reduced by 10,000 SF. In the Stacks section of this report, SEG has identified several concepts for consideration. It is our recommendation that a subcommittee be created to develop a plan within six months (April 2014) to reduce stacks space by 10,000 SF.

There are currently several open ranges on the south side of the 3rd floor. Immediate plans can be made to either:

- 1.) Forward shift the 3rd floor and remove stacks on the northeast side of the 3rd floor. This would allow this area to be renovated for Digital Scholarship Center.
- 2.) Move most of the P's to 3rd floor in vacant shelving which will open up the northeast side of 2nd floor which could allow for an extension of the 2nd floor commons and additional group study space.

Digital Scholarship Center/Data Management & Research Computing/Digital Media Lab.

A Digital Scholarship Center is listed in the MSU Library Strategic Plan for completion by 2015. Given the aggressive nature of this goal, this should be a priority. SEG has recommended several possible locations for the DSC/DMRC/DML:

- a. **Northeast side of 3rd floor** – While this may not be in a prominent area, this is the ideal location for these services. There are existing offices and a restroom so some of the infrastructure is in place. This would likely preserve the quiet nature of the 3rd floor since these would be enclosed spaces.
- b. **Spain-Sedivy** – This is a viable space. This room however is slotted to be a testing center for 3 years. If the implementation of these services can be delayed, this would serve as an ideal space. Users would have the benefit of the West Entrance for access.
- c. **4th floor** – With the removal of stacks, a space can be created.
- d. **Northeast side of 2nd floor** – These services will fit on the 2nd floor but SEG feels that group study and an extension of the Commons would be better suited for this space.
- e. **CD work space (corridor of offices and part of CD workspace)**. This space offers office space and collaborative workspace with minimal renovation. The disadvantage is identifying where these current workspaces will be relocated. Given that the Library is exploring an organizational restructure, SEG is hesitant to recommend modifications to employee work spaces until this process has been completed.
- f. **Northwest side of 1st floor** – This area can meet the space requirements needed; however, SEG does not recommend this space. Students' point of entry is 1st floor and often the only space they use in the Library. With the implementation of the Commons, there has been an increased use of space on 1st floor. In addition, students often come in and out of the Library quickly to use services on 1st floor. That kind of use should be preserved for students. The centers the Library is considering adding will provide space for those working on projects for longer time periods.

Convert quiet study to group study on east side of 3rd floor.

Observations and student feedback indicate that more group study space is needed. The east side of the 3rd floor has been identified as a possible location to place additional group working space.

This would involve some minor renovation. To separate group study space from quiet study on south side of the 3rd floor, windows and a door would need to be put in to create a divider between the two areas. HVAC issues would also need to be explored including existing study rooms.

By converting this space into a group study area, we would also resolve the problem currently experienced with noise from the group study rooms disrupting students studying in the quiet study space.

2nd Floor Commons Concept

The 2nd floor Commons concept can be implemented relatively quickly and with little cost. There is a large space on the north side of the 2nd floor that can be reconfigured to allow for flexible furniture and additional computers. Ideally the 2nd floor commons concept would extend to the northeast side of 2nd floor where there is natural lighting. This would involve shifting books to the 3rd floor and removing stacks.

Quiet computing space

Quiet computing space can be implemented fairly quickly through either the purchase of additional laptops available for circulation and/or by placing desktop computers throughout the 3rd floor.

Appendix 1 – Employee Survey on Space Allocation & New Space Prioritization

The Space Exploration Group is seeking your input on how space should be allocated in the library. Below is a list of existing and proposed new spaces. For existing spaces, the square feet currently allocated to it is listed; For proposed spaces, estimated space needs are provided. The existing and proposed spaces total 115,620 SF. The library has approximately 100,000 SF of usable space.					
Please indicate how much square footage you think should be allocated to each of these spaces. The final sum total MUST EQUAL 100,000 SF					
#	Answer	Minimum	Maximum	Average	SD
1	Comfy Seating - How many square feet should be allocated to comfy seating? Current space is 4,080 SF	1,000	8,000	3,583	1,650
2	Computing Space - How many square feet should be allocated to computing? Current space is 4,204 SF.	3,000	10,000	4,740	1,313
3	ITC Computer - How many square feet should be allocated to ITC Computers? Current space is 396 SF.	0	1,500	438	327
4	Quiet Space - How many square feet should be allocated to Quiet Study Space? Current space is 19, 527 SF.	1,500	21,527	15,534	5,042
5	Special Collections - How many square feet should be allocated to Special Collections? Current space is 7,175 SF.	5,000	15,000	7,353	1,709
6	Stacks- How many square feet should be allocated to Stacks? Current space is 30,048 SF.	10,000	35,910	20,355	5,479
7	Staff Space - How many square feet should be allocated to Staff Space? Current space is 16,163 SF.	15,000	20,000	17,090	1,422
8	Browsing Collection- How many square feet should be allocated to the Browsing Collection? Current space is 500 SF.	200	1,000	529	141
9	Group Tables -How many square feet should be allocated to Group Tables? Current space is 10,592 SF. SEG recommends increasing Group Table space to 17,000 SF.	10,592	25,000	16,321	3,094

10	Study Rooms - How many square feet should be allocated to Study Rooms? Current space is 1,964 SF. SEG recommends increasing Group Table space to 2,500 SF.	2,000	3,000	2,525	216
11	Writing Center - How many square feet should be allocated to Writing Center? Current space is 260 SF.	200	350	260	21
12	Brewed Awakening - How many square feet should be allocated to Brewed Awakening? Current space is 176 SF.	140	400	187	54
13	Library Classroom- How many square feet should be allocated to the Library Classroom? Current space allocated is 761 SF.	0	2,000	833	339
14	Digital Scholarship Center- How many square feet should be allocated to the Digital Scholarship Center? Estimated space needed is 1,120 SF.	0	1,800	915	448
15	Center for Faculty Excellence- How many square feet should be allocated to the Center for Faculty Excellence? Estimated space needed is 750 SF.	0	1,000	565	284
16	Data Management Center/Research Computing- How many square feet should be allocated to the Data Management Center? Estimated space needed is 1,200 SF.	0	12,000	1,345	2,181
17	Public Events Space- How many square feet should be allocated to the Public Events Space. Estimated space needed is 2,500 SF.	0	3,000	1,902	1,063
18	Tutoring Space-How many square feet should be allocated to the Tutoring Space? Estimated space needed is 500 SF.	0	810	418	262
19	Digital Media Lab- How many square feet should be allocated to the Digital Media Lab? Estimated space needed is 1,500 SF.	0	2,000	1,123	581
20	Research Center- How many square feet should be allocated to the Research Center? Estimated space needed is 520 SF.	0	2,000	522	400
21	Library Commons-2nd floor- How many square feet should be allocated to the 2nd floor Commons? Estimated space needed is 3,000 SF.	0	5,000	1,875	1,476
22	Designated Display Space - How many square feet should be allocated to Display areas. Estimated space needed is 300 SF.	0	900	270	211
23	ITC Help Desk-Space for this area is 800 SF. This space is currently not negotiable. Please enter 800 in the box.	640	800	794	30
24	Flexible Teaching Space-Space for this area is 640 SF. This space is currently not negotiable. Please enter 640 in the box.	500	640	633	28

2. SEG has identified new space needs in the Library. Please rank these not yet existing spaces from 1 to 7 in order of priority. (i.e. what should be tackled first?)

#	Answer	1	2	3	4	5	6	7	Total Responses
1	Center for Faculty Excellence Consolidates the disparate existing campus CFE space to a single center.	1	2	5	4	4	5	7	28
2	Data Management Center/Research Computing Center which facilitates the management of the data life cycle for research projects across campus	1	4	8	2	7	3	3	28
3	Digital Media Lab Media production space for faculty, staff and students	1	5	4	6	6	3	3	28
4	Digital Scholarship Center Collaborative space for cross-campus interdisciplinary research efforts for the campus community	11	2	2	6	1	5	1	28
5	Public Events Space Forum for campus and community events	3	10	3	1	1	4	6	28
6	Research Center Dedicated space for reference and instruction efforts	5	3	3	4	5	4	4	28
7	Second Floor Commons Extension of First floor commons concept	6	2	3	5	4	4	4	28
	Total	28	28	28	28	28	28	28	1-

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1	Center for Faculty Excellence Consolidates the disparate existing campus CFE space to a single center.	1	2	5	4	4	5	7	28
2	Data Management Center/Research Computing Center which facilitates the management of the data life cycle for research projects across campus	1	4	8	2	7	3	3	28
3	Digital Media Lab Media production space for faculty, staff and students	1	5	4	6	6	3	3	28
4	Digital Scholarship Center Collaborative space for cross-campus interdisciplinary research efforts for the campus community	11	2	2	6	1	5	1	28
5	Public Events Space Forum for campus and community events	3	10	3	1	1	4	6	28
6	Research Center Dedicated space for reference and instruction efforts	5	3	3	4	5	4	4	28
7	Second Floor Commons Extension of First floor commons concept	6	2	3	5	4	4	4	28
	Total	28	28	28	28	28	28	28	1-

Statistic	Center for Faculty Excellence	Data Management Center Research Computing Center	Digital Media Lab	Digital Scholarship Center	Public Events Space	Research Center	Second Floor Commons
Minimum	1	1	1	1	1	1	1
Maximum	7	7	7	7	7	7	7
Mean	4.82	4.11	4.14	3.11	3.82	4.04	3.96
Variance	3.34	2.91	2.87	4.32	5.19	4.33	4.48
SD	1.83	1.71	1.69	2.08	2.28	2.08	2.12
Total Response	28	28	28	28	28	28	28

Appendix 2 – Summary of Library Sweep Data

Seating Type Overall	Sq. Ft.	% of Total Space	Observation Overall	Observation Peak Times
Comfy Seating	4,080	4.1%	17.5%	24.8%
Group Tables	10,592	10.7%	52.8%	65.9%
Study Rooms	1,964	2.0%	61.9%	71.2%
Computing Space	4,204	4.2%	50.0%	61.6%
ITC Computers	396	0.4%	55.3%	38.8%
Quiet space	19,527.00	19.6%	24.20%	31.90%
Special Collections	7,175	7.2%	10.60%	10.60%
Stacks	30,048	30.2%		
Staff Space	16,163.00	16.3%		
Writing Center	260	0.3%		
Brewed Awakening	176	0.2%		
Testing Center	1,413.00	1.4%		
Teaching Space	761	0.8%		
1st Floor Lobby	1,552	1.6%		
2nd floor lobby	563.5	0.6%		
3rd floor lobby	563.5	0.6%		
Total	99438	100.0%		
1st Floor				
comfy seating	3,605	14.8%	19.3%	27.7%

group space	4,085	16.7%	52.5%	66.2%
study rooms	1,320	5.4%	56.7%	66.7%
computing space	3,840	15.7%	56.7%	69.6%
Stacks	651	2.7%		
Staff Space	8,929.5	36.6%		
1st floor lobby	1,552	6.4%		
Writing Center	260	1.1%		
Brewed Awakening	176	0.7%		
Total	24,419	100.0%		

2nd floor

Group space	4,663	19.4%	64.8%	82.0%
Computing	138	0.6%	46.6%	58.4%
ITC computers	198	0.8%	59.5%	42.3%
Quiet space	1,679	7.0%	29.5%	40.9%
Special Collections	7,175	29.9%	10.6%	10.6%
Stacks	8,451	35.2%		
Staff Space	1,150	4.8%		
lobby	563.5	2.3%		
Total	24,018	100.0%		

3rd floor

comfy seating	475	1.6%	14.4%	20.1%
Group study rooms	644	2.2%	69.1%	77.5%
Computing	42	0.1%	14.2%	35.4%
ITC computers	198	0.7%	51.2%	33.7%
Quiet space	15,166	52.2%	23.4%	30.7%
Stacks	11,435	39.4%		
Staff Space	509	1.8%		
Lobby	564	1.9%		
Total	29,032	100.0%		

4th floor

Computing	152	1.6%	16.2%	19.7%
Quiet Study	2,681.80	28.7%	22.3%	29.1%
Stacks space	4,991	53.4%		
Staff Space	1518.5	16.3%		
Total	9,343.30	98.4%		

Basement

Group space	1,844	14.6%	40.1%	52.4%
Computing	32	0.3%	14.7%	18.7%
Stacks	4,520	35.8%		
Staff space	4,055.50	32.1%		
teaching space	761.5	6.0%		
Testing Center	1412.7	11.2%		
Total	12,626	85.1%		